

**APPENDIX B****ALLOWANCE PARTS LIST  
PREPARATION AND PROCESSING****Table of Contents**

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## 6-B.0 INTRODUCTION

This appendix provides specific instructions for the preparation and processing of Allowance Parts Lists (APLs). It implements the policies and procedures pertaining to APLs as set forth in Chapter 6 of the NAVSEA PAFOS Manual. This appendix defines APLs, identifies APL categories, and provides procedures to be followed in the preparation of APLs.

### 6-B.1 APL DEFINITION

The APL is a technical document jointly prepared by the Technical Support Activity (TSA) and the Naval Inventory Control Point-Mechanicsburg (NAVICP-M). The APL is a stand alone allowance document that finitely identifies a system or equipment and the spares, Maintenance Assistance Modules (MAMs), and special tools required for operation and maintenance, both corrective and preventive, for the system or an equipment. An APL culminates the provisioning data development and is the document used to establish supply system stockage objectives, as well as define allowance candidates for shipboard allowances. APLs are an integral part of a ship's Coordinated Shipboard Allowance List (COSAL). APLs that support systems and equipment installed in a ship are listed in the Summary of Allowance Parts/Equipage/Components Lists (SOAPL) and are provided in their entirety in Part II of the COSAL.

### 6-B.2 APL PREPARATION

Chapter 3A of the COSAL Use and Maintenance Manual, SPCC Instruction 4441.170 (series), identifies and provides examples of the various types of APLs that appear in a COSAL. The preparation of an APL involves multiple actions on the part of the provisioning team summarized below and treated in detail in Chapter 4:

- a. System or equipment acquisition manager contracts for provisioning data.
- b. The system or equipment manufacturer or system integrator prepares the provisioning data in the format specified by the Contract Data Requirements List (CDRL).
- c. Provisioning data is processed by the designated TSA and NAVICP-M for the application of technical and supply coding. (See Chapter 4, Provisioning, for a full description of the provisioning process and assignment of responsibilities.)
- d. Once the data is entered into the Weapon Systems File (WSF) it can be extracted as a stand-alone APL or as part of a COSAL.

Stand-alone APLs are commonly referred to as provisioning APLs and show quantities of spares, MAMs, and special tools based on the number of applications installed in a ship. Hard copy COSAL APLs do not list allowed quantities. Instead, the user is referred to the Stock Number Sequence List (SNSL) of the COSAL to determine the allowed quantities.

- e. After preparation, the TSA is responsible for the validity of the APL.

### 6-B.3 APL FORMAT

The APL is formatted as follows (the upper case letters represent the standard blocks on the APL form). Figure B-1 provides an illustrated APL with the applicable data defined:

- EQUIPMENT NOMENCLATURE - This block identifies the system or equipment the APL supports.
- TECHNICAL DOCUMENT NUMBER - This block identifies the system or equipment technical manual and/or system or equipment drawing used to maintain and operate the system or equipment.
- IDENTIFICATION NUMBER - This block provides the APL number assigned. Ordnance Fire Control Systems and Electronics systems have (8) eight characters. Hull, Mechanical, and Electrical (HM&E) equipment have (9) nine characters. Use of APL prefixes and suffixes can expand the number to a total of (11) eleven characters. AELs have (10) ten characters. Appendix C of the COSAL Use and Maintenance Manual, SPCC Instruction 4441.170 (series), provides a complete breakdown of HM&E APL categories and the numbering system used in assigning APL identification numbers.
- DATE - The date appearing here is the date the APL was extracted from the WSF.
- PAGE - The page number appearing here is the page number of the APL. The last page of the APL will have the word "END" printed in bold print in the center of the page on the line immediately following the last line of data. This data is entered during the provisioning process.
- CHARACTERISTICS - A finite description of the system or equipment is printed in the body of the APL directly beneath this word. This block can also be used to provide specific instructions and notes. The Commercial and Government Entity (CAGE) for the system or equipment is also provided in this block. This data should also appear on the system

or equipment nameplate that is permanently affixed to the system or equipment.

- **ADDITIONAL DATA FIELD** - The space immediately beneath and following the characteristics field is reserved to provide additional data that helps to identify the system or equipment in relation to a parent system or equipment. This data can consist of additional drawings, additional technical manuals, related APLs, and specifications. This field is also used to record key logistics information and notes pertaining to this APL and its spare parts. The Lead APL for HM&E systems and equipment is identified in this space.
- **ACCESSORY EQUIPMENT** - APLs for accessory equipment are listed on parent APLs. These accessory APLs are provided through the WSF but must be verified by the TSA.
- **REFERENCE SYMBOL NUMBER** - This is the plan and piece number or a specific designator assigned to an electronics or fire control system piece part. This number is technical in nature and must be provided by the system or equipment manufacturer and should be an integral part of the system or equipment drawings.
- **ITEM NAME** - The CAGEs and noun names of embedded parts or special tools are provided in this column. The CAGE is a code assigned to a manufacturer and is an integral part of the design plans and provisioning data. A combination of the CAGE and the plan and piece number of the part provides cataloging data and finite parts identification.
- **STOCK NUMBER** - The National Stock Numbers (NSNs) or Navy Item Control Numbers (NICNs) assigned to individual parts, special tools, or MAMs are provided in this column. NSNs are assigned by the Defense Logistics Services Center (DLSC) based on the CAGE and part identification provided by NAVICP-M during the provisioning process. NICNs are assigned by NAVICP-M to provide part identification while a NSN is being obtained. Permanent NICNs may also be assigned to assist the Fleet in the identification and control of items (i.e., sizes of personnel related items, etc.).
- **PART MILITARY ESSENTIALITY CODE (MEC)** - The Part MEC is assigned to reflect the importance of each part to the system or equipment as a whole.
- **SOURCE, MAINTENANCE AND RECOVERABILITY (SM&R) CODES** - SM&R codes are technical in nature and reflect the part level acquisition, maintenance, and disposal philosophies. SM&R code assignment is summarized below and detailed in Chapter 4:

- SOURCE CODE - The Source code consists of the first two digits of the SM&R Code and indicates the source of a part.
- MAINTENANCE CODE - The Maintenance Code consist of two digits occupying the 3rd and 4th positions of the SM&R code.
- RECOVERABILITY/CONDEMNATION CODE - The recoverability/condemnation code occupies the fifth position of the SM&R code.
- ALLOWANCE NOTE CODES - Allowance note codes are assigned to individual parts to identify a unique requirement of some type.
- QUANTITY IN ONE EQUIPMENT - The numbers appearing in this column indicate the number of the individual parts that are embedded in the system or equipment identified on the APL.
- UNIT OF ISSUE - This column indicates the quantity of an item carried as a packaging unit in the supply system (i.e., each, assembly, dozen, box, gross, foot, etc.).
- ALLOWANCE ITEM CODE - This code provides allowance override or underide coding.
- ON BOARD ALLOWANCE TABLE - If the APL is a provisioning APL, there will be quantities in the columns as applicable. If the APL is extracted as part of a COSAL, the words "SEE SNSL FOR ALLOW" will appear on the face of the APL.
- SHIP TYPE & HULL NUMBER - If the APL is a provisioning APL, this space will be blank. If the APL is extracted as part of a ship's COSAL, that ship's hull type and hull number will be printed in this space (i.e., DD 963 would appear here if the COSAL was for the USS SPRUANCE DD 963).
- PAGE - This space provides the page count on the applicable number of consecutive pages that have been printed by category of APL ("H" indicates HM&E, "Z" indicates ordnance, "E" indicates electronics). For example, the 20th page printed for the HM&E category of APLs would be H20.

#### **6-B.4 TYPES OF APLS**

There are several types of APLs. These are described in detail in the COSAL Use and Maintenance Manual, SPCCINST 4441.170 (series). The APL types are identified here to provide a ready reference. The APL number can range from 8 to 11 characters including prefixes and suffixes.

#### **6-B.4.1 Hull, Mechanical and Electrical APL**

HM&E APLs are used to identify the maintenance significant items for HM&E systems and equipment. These APLs have (9) nine characters in their identification number. Figure B-1 is an example of an HM&E APL.

#### **6-B.4.2 Ordnance APL**

Ordnance APLs are used to identify the maintenance significant items for the ship's weaponry and weapons support equipment. These APLs identify the ordnance system by the type of weapon system (i.e., Gun, 5 Inch 54 MK 2 MOD 1, etc.). Ordnance APL identification numbers have (9) nine characters with the first two characters being 00. (See Figure B-2.)

#### **6-B.4.3 Ordnance Alteration APL**

This APL is used to identify maintenance significant items supporting an alteration to an ordnance system or equipment. This APL is used in conjunction with the system or equipment APL identified in the characteristics field. Ordnance Alteration (ORDALT) APL identification numbers have (9) nine characters with the first two characters being 0R (zero R). (See Figure B-3.)

#### **6-B.4.4 HM&E Machinery Alteration APL**

Machinery Alteration (MACH ALT) APLs are developed to identify maintenance significant items supporting configuration changes to HM&E systems and equipment. These changes are caused by redesign of the system or equipment, or by redesign of internal parts. These systems are normally Government acquired and built to NAVSEA specifications. MACHALT APL identification numbers have (9) nine characters and can be identified by an alpha character in the (6th) sixth position. (See Figure B-4.)

#### **6-B.4.5 Electronic and Gunfire Control System APLs**

Electronic and Gunfire Control System (GFCS) APLs are developed to identify maintenance significant items supporting electronic and GFCs. These APLs also have a Section "B" which is a topdown breakdown of maintenance significant parts in Circuit Symbol Number (CSN) sequence. CSNs are cross referenced to the NSN or NICN, CAGE for the part, and part number. Electronic and GFCS APL identification numbers have (8) eight characters. (See Figure B-5.)

#### **6-B.4.6 Electronics Field Change APL**

Electronics Field Change APLs are prepared to identify maintenance significant items to support the configuration changes resulting from alterations to electronic systems and GFCSSs. These APL identification numbers have (8) eight characters. (See Figure B-6.)

#### **6-B.4.7 Miscellaneous Repair Parts List APL**

Miscellaneous Repair Parts APLs provide support for a variety of equipment installed in ships that are not APL worthy. These APLs are also used to avoid proliferation of APLs for systems that can be modified by shipboard personnel without changing the configuration of the basic equipment. These APLs, commonly referred to as 89000 series APLs, were developed to accommodate common electrical, piping, and machinery systems. Appendix "A" to the Cosal Use and Maintenance Manual, SPCCINST 4441.170 (series), provides the ground rules to be used in the development of 89000 series APLs. The identification number for these APLs has (9) nine characters and always starts with "89" as the first (2) two characters. (See Figure B-7.)

#### **6-B.4.8 Allowance Components List**

Although the Allowance Components List (ACL) is identified as an APL, this is really a misnomer. The ACL does not identify any parts. The ACL is provided to identify a system that is made up of equipment that are supported by APLs on their own. There are also equipment APL numbers listed that are identified for configuration control purposes only. Each equipment listed on the ACL may not be installed at each installation. Therefore, each system installed in a ship must be validated as to which of the equipment are in fact installed. Parts support is derived through the equipment APLs. ACLs are electronic in nature and their identification numbers have (10) ten characters, the last (2) two characters range from "CA" to "CZ" except "X." (See Figure B-8.)

## ALLOWANCE PARTS LIST (APL)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS				TECHNICAL DOCUMENT NUMBER		MANUAL		IDENTIFICATION NO		DATE		PAGE																							
PUMP CTFGL 900GPM 125PSI 3500RPM MD VLT						PLAN		347-4249		016110317		03-15-90		1																					
CHARACTERISTICS  MFR-AURORA PUMP A UNIT OF GENERAL SIGNAL CORP MFR DWG-2FC3256 MFT D-5M0X5 PATTERN NO-474 EQUIP SPEC-MLP17639CLASSC2 NSN-7H 4320-01-046-6604 LAPL-01-011 CAPACITY-900GPM TOTAL DYNAMIC HEAD-125-PSI SPEED-3500RPM IMPELLER DIA-6.375 MOUNTING-HORIZONTAL ROTATION-CW TYPE DRIVE-MD NOTE-STAINLESS STEEL REPLACEMENT PUMP END NSN 7H 4320-00-563-7860 APL 016110662 FSCM-04579						P A R T  S O U R C E  M E C		R E C O V E R B L I T Y  M A I N T  E S		QTY IN ONE EQPT/ COMP		U/I		A L L  I T E M		ON BOARD ALLOWANCE TABLE																			
																NUMBER OF EQUIPMENT/COMPONENTS																			
												1		2		3		4		5-8		9-20		21-50											
•SERVICE APPL--FIRE COUPLING SHFT FLEX FIGHTING-FIRE PUMP INSTALLED																																			
•SERVICE APPL--FIRE LIGHT ASSY IND FIGHTING-FIRE PUMP INSTALLED																																			
•SERVICE APPL--FIRE MOTOR AC 440V 100HP FIGHTING-FIRE PUMP INSTALLED																																			
•SERVICE APPL--FIRE STARTER MOTOR SZ 4 440V FIGHTING-FIRE PUMP INSTALLED																																			
•SERVICE APPL--FIRE STARTER MOTOR SZ 4 440V FIGHTER-FIRE PUMP INSTALLED																																			
•SERVICE APPL--FIRE STARTER MOTOR SZ 4 440V FIGHTER-FIRE PUMP INSTALLED																																			
•SERVICE APPL--FIRE SWITCH ASSY 2 ELEMENT FIGHTER-FIRE PUMP INSTALLED																																			
REFERENCE SYMBOL NO.				ITEM NAME				STOCK NUMBER				P A R T  S O U R C E  M E C		R E C O V E R B L I T Y  M A I N T  E S		QTY IN ONE EQPT/ COMP		U/I		A L L  I T E M		1		2		3		4		5-8		9-20		21-50	
SM 101		H 219		ALLOWANCE PARTS LIST (APL)																															
SHIP TYPE & HULL NO.		PAGE																																	

EQUIPMENT /COMPONENT NOMENCLATURE/CHARACTERISTICS				TECHNICAL DOCUMENT NUMBER	MANUAL	347-4249	IDENTIFICATION NO.				DATE		PAGE												
PUMP CTFGL 900GPM 125PSI 3500RPM MD VLT					PLAN		016110317				03-15-90		2												
CHARACTERISTICS						PARTS SECTION		RECOMMENDATIONS		QTY IN ONE EOP/COMP		UNIT		ALL ITEM		ON BOARD ALLOWANCE TABLE									
																NUMBER OF EQUIPMENT/COMPONENTS									
																1 2 3 4 5-8 9-20 21-50									
G-234				04576 PACKING, RINGS		1H 0000-LL-CW-1-5876		1 MOOZZ		12		EA				SEE SNGL FOR ALLOW									
				USE 925330-00-450-3894																					
ML-A-17472-1				81349 ASBESTOS SHEET		9Z 5330-00-585-9502		1 PAOZZ		1		SH P													
ML-P-24377-				81349 PACKING MATERIAL		9Z 5330-00-450-3894		1 PAOZZ		1		LB P													
1-25QX2 3-4LG				04579 KEY-MACH STL 1-2X2		9Z 5315-00-224-4605		1 PAOZZ		1		EA													
1FC6204-6				04579 CUP-GREASE		9C 4730-00-180-5568		3 PAOZZ		2		EA													
1F063322768				04579 IMPELLER-PUMP CTFGL		1H 4320-00-660-8533		1 PAOZZ		1		AY													
17HC6256 PUMP				04579 BEARING-SLV		9Z 3120-00-725-0074		1 PAOZZ		2		EA													
2-10-12BG				04579 PUMP,CENTRIFUGAL		7H 4320-01-046-6604		1 PAOOD		1		EA Z													
2-10-44BG				04579 RING-LTRN SPT		9C 4320-00-713-1424		1 PAOZZ		2		EA													
2-2A132SS				04579 GLAND ASSY		1H 0000-66-CE5-9422		1 XBOZZ		2		AY													
2-6-57MK				04579 CASING, PUMP		7H 4320-01-078-2094		1 PAODD		1		AY Z													
207WD				04579 SHAFT, SHOULDERED		9C 4320-00-802-2064		1 PAOZZ		1		EA													
6-10-46				04579 BEARING, BALL ANN		9Z 3110-00-554-5962		1 PAOZZ		1		EA													
676-1085-263				04579 FLANGE ASSY		1H 0000-LL-CG2-6025		3 XBOZZ		1		EA													
676-1086-111				04579 RING, WEARING		9C 4320-01-061-7547		1 PAOZG		2		EA													
7207W				04579 RING, WEARING		9C 4320-01-042-2730		1 PAOZG		2		EA													
				END																					
REFERENCE SYMBOL NO				ITEM NAME				STOCK NUMBER				PARTS SECTION		RECOMMENDATIONS		QTY IN ONE EOP/COMP		UNIT		ALL ITEM		1 2 3 4 5-8 9-20 21-50			
SM 101		H 220		ALLOWANCE PARTS LIST (APL)																016110317		03-15-90		2	
SHIP TYPE & HULL NO.		PAGE																				IDENTIFICATION NO.		DATE	

Figure B-1  
HM&E APL

ALLOWANCE PARTS LIST (APL)									
EQUIPMENT COMPONENT NOMENCLATURE/CHARACTERISTICS				MANUAL		TECHNICAL DOCUMENT		IDENTIFICATION NO.	
MK6MOD9, HOIST, 5 INCH CALIBER AMMUNITION				PLAN		NUMBER		DATE	
								08-17-92	
								006040052	
								1	
								21-50	
								1	
								2	
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### ALLOWANCE PARTS LISTS (APL)

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS		TECHNICAL DOCUMENT NUMBER	MANUAL PLAN	IDENTIFICATION NO.	DATE	PAGE
MODIFICATION KIT				OR68040001	10-15-88	1
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>CHARACTERISTICS</b></p> <p>MFR-NAVAL ORDNANCE PLANT            NAVCOM PLAN-            MFR DWG-            MFR ID-ORDALT6804            PATTERN NO-1140            EQUIP SPEC-            FSN-2A1440-178-9995            LAPL-            NOTE APPLICABLE TO LAUNCHER MK112MODS            ALL            APLS 005020001,005020009, 005020016,            005020024            FSCM-61178            0744</p> </div> <div style="width: 35%;"> <p><b>ORDALT APL</b>  <b>ORDALT APL SHOULD BE USED IN CONJUNCTION WITH THE BASIC APL</b></p> </div> </div>						
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>1A 5315-00-404-7818            92 5310-00-773-7618            92 5310-00-857-4859            92 5310-00-680-8850            92 5310-00-768-0319            92 5306-00-781-1169            1A 1440-00-456-6170            1A 1440-00-456-0766            1A 5306-00-411-0254            1A 5315-00-404-7819</p> </div> <div style="width: 35%;"> <p>8EA            5EA            24 EA            24 EA            24 EA            12 EA            10 EA            12 EA            12 EA            6 EA</p> </div> </div>						
<p>2 - NOTES - For detailed definition, see Appendix "C"</p> <p>3 - DASH ( - ) located in the ALL ITEM column and represent the quantity by which the effected APL population of the item has been decreased because of ORDALT accomplishment</p>						
<p>SEE INSL FOR ALLOW</p>						

1 - ORDALT APL NUMBER - First position is a numeric, not an alpha character.

2 - NOTES - For detailed definition, see Appendix "C"

3 - DASH ( - ) located in the ALL ITEM column and represent the quantity by which the effected APL population of the item has been decreased because of ORDALT accomplishment

SEE INSL FOR ALLOW

REFERENCE SYMBOL NO.	ITEM NAME	STOCK NUMBER
DD 901	PART II ALLOWANCE PARTS LISTS (APL) SECTION A	
SHIP TYPE & HULL NO.	PAGE	

Figure B-3  
ORDALT APL

2

### ALLOWANCE PARTS LISTS (APL)

1

EQUIPMENT/COMPONENT NOMENCLATURE/CHARACTERISTICS		MANUAL	TECHNICAL DOCUMENT NUMBER	IDENTIFICATION NO.	DATE	PAGE
APPROVED SHIP ALTERATION NO DD 901		70342		52017A010	05-30-88	1

  

MFR-NAVAL SEA SYSTEMS COMMAND. WASH. DC		ON BOARD ALLOWANCE TABLE	
NAVCOM PLAN-518-5356953 MFR DWG-5356953 MFR ID-5356953 PATTERN NO-1204 EQUIP SPEC-NONE NSN-N/A LAPL-NLAPLW TECHNICAL DIRECTIVE NO.- JCB NO.- APPLICABLE CHANGE IN DESIGN NO.-SSN-2929 APPLICABLE BASE LINE APL NO.-520170342 PDCN-W470K 8UK FSCM-53711		NUMBER OF EQUIPMENTS/COMPONENTS 1 2 3 4 5-8 9-20 21-50	
MS28774-330	96906 RETAINER-PK 2 . 138 ID	EA	
M83248 /1-330	81349 PACKING PREFMD 2 . 100 ID	EA	
M83248 /1-920	81349 O-RING-1 . 250D 1 . 475 ID	EA	
END			

  

1 HM&E modification APL denoted by "AO"

2 Identifies the APL as a ship alteration

  

REFERENCE SYMBOL NO.	ITEM NAME	STOCK NUMBER	QTY IN ONE EOPT/COMP.	IDENTIFICATION NO.	DATE	PAGE
DD 901	H 10	SECTION A		52017A010	05-30-88	1
SHIP TYPE & HULL NO.						

Figure 3-A-13 HM&E Machine Alteration (MAC ALTs) Allowance Parts List

Figure B-4  
MACHALT APL